

PROJECT NUMBER: 1333
PROJECT TITLE: Semiworks Process Control
PROJECT LEADER: D. A. Phan
PERIOD COVERED: April, 1988

A. Objective: Evaluate and revise the process control and data acquisition system to improve processing performance and production quality.

B. Results:

ADT Dryer Control Improvements (Sims) - The design of a special data logging and retrieval system was complete. This system provides more accurate process data during the steady-state portion of all production runs through the Adt dryer for process analysis. The process report, generated from this system, includes averages and standard deviations of all key variables from the cutter steam cylinder to the final silos.

Second Bright Casing Flavor System (Oliver) - Electrical and instrumentation installation for a second bright casing flavor system was complete and checked out. This system will be on-line the week of May 9, 1988.

Hauni HT Steam Tunnel Installation (Oliver) - Work is underway to rearrange the Adt dryer infeed to accomodate the addition of a HT steam tunnel that is scheduled to be installed in July 88. This includes the modifications to the inlet feeder and weighbelt, and the installation of a new Corra-Trough conveyor after the cutters. This work is being done in conjunction with F. Boothe of R&D Development Engineering.

3,000-lb Steam Cylinder Upgrade (Oliver/Medek) - Plan is in progress to upgrade the steam piping system at the 3,000-lb steam cylinder due to severe corrosion of steam piping at this location. The scope of work will also include the rearrangement of existing steam and water piping stand, and overall cleanup of unused valves and instruments.

Temperature Control System For Scandia Overwrappers (Phan/Sims) - Development work by J. Osmalov indicated that temperature setting of the end seal heaters is critical for pack seal quality, and the existing system provides poor temperature control (± 10 degrees F). Plan is underway to provide better temperature control system (to 2 degree F) for all end seal heaters.

C. Plans: Complete all software modifications on the primary backup computer. Complete the design of a new steam and water piping stand and order required parts for the 3,000 lb steam cylinder. Order instruments to improve temperature control of all Scandia overwrappers. Continue to provide electrical plant engineering support to the Semiworks and conduct routine QA function.

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